Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- 1-6. (Cancelled).
- 7. (Currently Amended) A method of manufacturing a semiconductor device comprising:

providing an amorphous semiconductor film with a metal element for promoting crystallization of said semiconductor film;

heating said amorphous semiconductor film to crystallize said amorphous semiconductor film;

forming a metal element diffusion film comprising a semiconductor dimetally on over the crystallized semiconductor film, said forming of the metal element diffusion film increasing a defect density of the metal element diffusion film;

diffusing the metal element from the crystallized semiconductor film into the metal element diffusion film; and

removing the metal element diffusion film after the step of diffusing the metal element.

- 8. (Previously Presented) The method of claim 7 wherein said metal element diffusion film is an amorphous silicon film.
- 9. (Previously Presented) The method of claim 7 wherein said metal element diffusion film is a polycrystalline silicon film.
- 10. (Previously Presented) The method of claim 7 wherein said metal element diffusion film is an amorphous Si_xGe_{1-x} film where 0<x<1.

- 11. (Previously Presented) The method of claim 7 wherein said method element is at least one of Fe, Co, Ni, Ru, Rh, Pd, Os, Ir, Pt, Cu and Au.
- 12. (Currently Amended) A method of manufacturing a semiconductor device comprising:

providing a selected portion of an amorphous semiconductor film with a metal element for promoting crystallization of said semiconductor film;

heating said amorphous semiconductor film to crystallize saic amorphous semiconductor film wherein the crystallization proceeds from said selected portion laterally;

forming a metal element diffusion film comprising a semiconductor directly on over the crystallized semiconductor film, said forming of the metal element diffusion film increasing a defect density of the metal element diffusion film;

diffusing the metal element from the crystallized semiconductor film irito the metal element diffusion film; and

removing the metal element diffusion film after the step of diffusing the metal element.

- 13. (Previously Presented) The method of claim 12 wherein said metal element diffusion film is an amorphous silicon film.
- 14. (Previously Presented) The method of claim 13 wherein said mital element diffusion film is a polycrystalline silicon film.
- 15. (Previously Presented) The method of claim 13 wherein said metal element diffusion film is an amorphous Si_xGe_{1-x} film where 0<x<1.
- 16. (Previously Presented) The method of claim 15 wherein said meta: element is at least one of Fe, Co, Ni, Ru, Rh, Pd, Os, Ir, Pt, Cu and Au.

17. (Previously Presented) A method of manufacturing a semiconductor device comprising:

providing an amorphous semiconductor film with a metal element for promoting crystallization of said semiconductor film;

heating said amorphous semiconductor film to crystallize said amorphous semiconductor film;

forming a metal element diffusion film comprising a semiconductor directly on over the crystallized semiconductor film, said forming of the metal element iffusion film increasing a defect density of the metal element diffusion film;

diffusing the metal element from the crystallized semiconductor film i ito the metal element diffusion film by irradiating the crystallized semiconductor film with later; and

removing the metal element diffusion film after the step of diffusing the metal element.

- 18. (Previously Presented) The method of claim 17 wherein said metal element diffusion film is an amorphous silicon film.
- 19. (Previously Presented) The method of claim 17 wherein said metal element diffusion film is a polycrystalline silicon film.
- 20. (Previously Presented) The method of claim 17 wherein said metal element diffusion film is an amorphous Si_xGe_{1-x} film where 0<x<1.
- 21. (Previously Presented) The method of claim 17 wherein said metal element is at least one of Fe, Co, Ni, Ru, Rh, Pd, Os, Ir, Pt, Cu and Au.
- 22. (Currently Amended) A method of manufacturing a semiconductor device comprising:

providing an amorphous semiconductor film with a metal element for promoting crystallization of said semiconductor film;

heating said amorphous semiconductor film to crystallize said amorphous semiconductor film;

forming an etching stopper film on the crystallized semiconductor film;

forming a metal element diffusion film comprising a semiconductor over the crystallized semiconductor film with the etching stopper film interposed the between said forming of the metal element diffusion film increasing a defect density of the metal element diffusion film;

diffusing the metal element from the crystallized semiconductor film into the metal element diffusion film by irradiating the crystallized semiconductor film with laser; and

removing the metal element diffusion film after the step of diffusing the metal element.

- 23. (Previously Presented) The method of claim 22 wherein said the lement diffusion film is an amorphous silicon film.
- 24. (Previously Presented) The method of claim 22 wherein said r tetal element diffusion film is a polycrystalline silicon film.
- 25. (Previously Presented) The method of claim 22 wherein said n etal element diffusion film is an amorphous Si_xGe_{1-x} film where 0 < x < 1.
- 26. (Previously Presented) The method of claim 22 wherein said met il element is at least one of Fe, Co, Ni, Ru, Rh, Pd, Os, Ir, Pt, Cu and Au.
- 27. (Previously Presented) The method of claim 22 wherein said etc sing stopper film comprises silicon nitride.
- 28. (Previously Presented) The method of claim 22 wherein said etcling stopper film comprises silicon oxide.

29. (New) The method according to claim 7 wherein said metal deffusion film is formed on said crystallized semiconductor film.

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